

Location	Date/Time	Dissolved Cadmium			Dissolved Cadmium	Dissolved Copper	
		Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness
Cement Creek 14th St Bridge	8/5/15 16:00	<b>98.3</b>	9.1	1.20	10.7	<b>10400</b>	49.6
CC48	8/5/15 19:25	<b>30.6</b>	9.1	1.20	3.3	<b>2260</b>	49.6
CC48	8/5/15 23:00	<b>19.1</b>	9.1	1.20	2.1	<b>1130</b>	49.6
CC48	8/6/15 6:00	<b>14.2</b>	9.1	1.20	1.6	<b>786</b>	49.6
A68	8/5/15 16:00	<b>0.828</b>	2.8	0.43	0.3	3.45	13.6
A68	8/5/15 19:15	<b>0.815</b>	2.8	0.43	0.3	3.16	13.8
A68	8/5/15 23:30	<b>0.974</b>	2.8	0.43	0.3	3.52	13.7
A68	8/6/15 6:15	<b>0.85</b>	2.8	0.43	0.3	3.26	13.8
A72	8/5/15 13:45	<b>1.81</b>	4.4	0.64	0.4	9.27	22.4
A72	8/5/15 16:15	<b>15.2</b>	6.5	0.90	2.3	<b>1410</b>	34.4
A72	8/5/15 20:10	<b>4.29</b>	4.1	0.60	1.1	<b>205</b>	20.7
A72	8/5/15 23:50	<b>2.59</b>	3.8	0.56	0.7	11.4	18.9
A72	8/6/15 6:30	<b>2.11</b>	3.7	0.56	0.6	7.63	18.8
Bakers Bridge	8/5/15 20:05	0.353	2.7	0.42	0.1	2.28	13.2
Bakers Bridge	8/6/15 0:00	0.336	2.7	0.42	0.1	1.88	13.2
Bakers Bridge	8/6/15 9:00	<b>5.32</b>	3.6	0.54	1.5	<b>189</b>	18.2
32nd St Bridge	8/5/15 20:50	0.178	4.1	0.60	0.0	1.7	20.7
32nd St Bridge	8/6/15 0:40	0.16	4.1	0.60	0.0	1.56	20.8
32nd St Bridge	8/6/15 9:45	0.19	4.1	0.60	0.0	1.62	20.9

**Bold** Greater than Chronic TVS

**Shaded** Greater than Acute and Chronic TVS

Dissolved Copper		Total Iron			Total Iron	Dissolved Lead			Dissolved Lead
Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient
29.3	209.6	49500	NA	1000	49.50	150	281	10.9	0.5
29.3	45.5	27000	NA	1000	27.00	73.9	281	10.9	0.3
29.3	22.8	21300	NA	1000	21.30	54.1	281	10.9	0.2
29.3	15.8	20000	NA	1000	20.00	30	281	10.9	0.1
9.0	0.3	165	NA	1000	0.17	0.232	65	2.5	0.0
9.2	0.2	132	NA	1000	0.13	0.283	67	2.6	0.0
9.1	0.3	138	NA	1000	0.14	0.82	66	2.6	0.0
9.2	0.2	143	NA	1000	0.14	0.329	67	2.6	0.0
14.2	0.4	66300	NA	1000	66.30	0.225	116	4.5	0.0
21.0	41.0	1250000	NA	1000	1250.00	50.7	188	7.3	0.3
13.2	9.9	164000	NA	1000	164.00	3.12	106	4.1	0.0
12.2	0.6	35700	NA	1000	35.70	0.118	96	3.7	0.0
12.2	0.4	18400	NA	1000	18.40	0.5	95	3.7	0.0
8.8	0.2	421	NA	1000	0.42	0.5	63	2.5	0.0
8.8	0.1	412	NA	1000	0.41	0.5	63	2.5	0.0
11.8	10.4	326000	NA	1000	326.00	1.56	92	3.6	0.0
13.2	0.1	331	NA	1000	0.33	0.24	106	4.1	0.0
13.3	0.1	295	NA	1000	0.30	0.5	107	4.2	0.0
13.4	0.1	371	NA	1000	0.37	0.115	107	4.2	0.0

Dissolved Manganese			Dissolved Manganese	Dissolved Zinc			Dissolved Zinc	Hardness	
Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Or 400, whichever is less	Measured Value
<b>37100</b>	4738	2618	7.8	<b>26800</b>	564	428	47.5	400	1300
<b>10900</b>	4738	2618	2.3	<b>8540</b>	564	428	15.1	400	537
<b>8020</b>	4738	2618	1.7	<b>5820</b>	564	428	10.3	400	467
<b>6720</b>	4738	2618	1.4	<b>4650</b>	564	428	8.2	400	433
737	2996	1655	0.2	<b>199</b>	161	122	1.2	101	101
727	3015	1666	0.2	<b>238</b>	164	124	1.4	103	103
757	3005	1661	0.3	<b>324</b>	163	123	2.0	102	102
817	3015	1666	0.3	<b>326</b>	164	124	2.0	103	103
1370	3577	1976	0.4	<b>699</b>	262	198	2.7	172	172
<b>6650</b>	4162	2299	1.6	<b>4020</b>	396	300	10.1	271	271
1810	3477	1921	0.5	<b>1210</b>	243	184	5.0	158	158
1320	3371	1863	0.4	<b>733</b>	223	169	3.3	144	144
1160	3363	1858	0.3	<b>609</b>	222	168	2.7	143	143
306	2966	1639	0.1	85.8	157	119	0.5	98	98
296	2966	1639	0.1	110	157	119	0.7	98	98
<b>2090</b>	3324	1836	0.6	<b>1700</b>	214	162	7.9	138	138
105	3477	1921	0.0	43.5	243	184	0.2	158	158
105	3484	1925	0.0	37.8	244	185	0.2	159	159
97.8	3492	1929	0.0	49.1	245	186	0.2	160	160

Total Mercury		Dissolved Arsenic		
Measured Value		Measured Value		
	Chronic TVS		Acute TVS	Chronic TVS
19.2 D	0.01 #VALUE!	<5.00	340	150 #VALUE!
0.078 J	0.01 #VALUE!	<2.50	340	150 #VALUE!
0.077 J	0.01 #VALUE!	<2.50	340	150 #VALUE!
0.052 J	0.01 #VALUE!	<2.50	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
0.418	0.01 41.8	<b>0.797 J</b>	340	150 #VALUE!
0.065 J	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!
0.152	0.01 15.2	<0.500	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<b>0.628 J</b>	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<b>0.603 J</b>	340	150 #VALUE!
<0.0500	0.01 #VALUE!	<0.500	340	150 #VALUE!

Location	Date/Time	Total Cadmium			Hazard Quotient	Total Copper	
		Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness		Measured Value	Acute TVS at Hardness
Cement Creek 14th St Bridge	8/5/15 16:00	<b>98.3</b>	NA	10.00	NA	<b>10400</b>	49.6
CC48	8/5/15 19:25	<b>30.6</b>	NA	10.00	NA	<b>2260</b>	49.6
CC48	8/5/15 23:00	<b>19.1</b>	NA	10.00	NA	<b>1130</b>	49.6
CC48	8/6/15 6:00	<b>14.2</b>	NA	10.00	NA	<b>786</b>	49.6
A68	8/5/15 16:00	<b>0.828</b>	2.8	0.43	0.30	3.45	13.6
A68	8/5/15 19:15	<b>0.815</b>	2.8	0.43	0.29	3.16	13.8
A68	8/5/15 23:30	<b>0.974</b>	2.8	0.43	0.35	3.52	13.7
A68	8/6/15 6:15	<b>0.85</b>	2.8	0.43	0.30	3.26	13.8
A72	8/5/15 13:45	<b>1.81</b>	4.4	0.64	0.41	9.27	22.4
A72	8/5/15 16:15	<b>15.2</b>	6.5	0.90	2.33	<b>1410</b>	34.4
A72	8/5/15 20:10	<b>4.29</b>	4.1	0.60	1.05	<b>205</b>	20.7
A72	8/5/15 23:50	<b>2.59</b>	3.8	0.56	0.69	11.4	18.9
A72	8/6/15 6:30	<b>2.11</b>	3.7	0.56	0.56	7.63	18.8
Bakers Bridge	8/5/15 20:05	0.353	2.7	0.42	0.13	2.28	13.2
Bakers Bridge	8/6/15 0:00	0.336	2.7	0.42	0.12	1.88	13.2
Bakers Bridge	8/6/15 9:00	<b>5.32</b>	3.6	0.54	1.47	<b>189</b>	18.2
32nd St Bridge	8/5/15 20:50	0.178	4.1	0.60	0.04	1.7	20.7
32nd St Bridge	8/6/15 0:40	0.16	4.1	0.60	0.04	1.56	20.8
32nd St Bridge	8/6/15 9:45	0.19	4.1	0.60	0.05	1.62	20.9

**Bold** Greater than Chronic TVS

**Shaded** Greater than Acute and Chronic TVS

Total Copper		Total Iron			Dissolved Lead			Dissolved Manganese	
Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value
29.3	210	<b>49500</b>	NA	1000	<b>150</b>	281	10.9	0.5	<b>37100</b>
29.3	45.55	<b>27000</b>	NA	1000	<b>73.9</b>	281	10.9	0.26	<b>10900</b>
29.3	22.77	<b>21300</b>	NA	1000	<b>54.1</b>	281	10.9	0.19	<b>8020</b>
29.3	15.84	<b>20000</b>	NA	1000	<b>30</b>	281	10.9	0.11	<b>6720</b>
9.0	0.25	165	NA	1000	0.232	65	2.5	0.00	737
9.2	0.23	132	NA	1000	0.283	67	2.6	0.00	727
9.1	0.26	138	NA	1000	0.82	66	2.6	0.01	757
9.2	0.24	143	NA	1000	0.329	67	2.6	0.00	817
14.2	0.41	<b>66300</b>	NA	1000	0.225	116	4.5	0.00	1370
21.0	41.01	<b>1250000</b>	NA	1000	<b>50.7</b>	188	7.3	0.27	<b>6650</b>
13.2	9.91	<b>164000</b>	NA	1000	3.12	106	4.1	0.03	1810
12.2	0.60	<b>35700</b>	NA	1000	0.118	96	3.7	0.00	1320
12.2	0.41	<b>18400</b>	NA	1000	<b>0.1</b>	95	3.7	0.00	1160
8.8	0.17	421	NA	1000	<b>0.1</b>	63	2.5	0.00	306
8.8	0.14	412	NA	1000	<b>0.1</b>	63	2.5	0.00	296
11.8	10.38	<b>326000</b>	NA	1000	1.56	92	3.6	0.02	<b>2090</b>
13.2	0.08	331	NA	1000	0.24	106	4.1	0.00	105
13.3	0.07	295	NA	1000	<b>0.1</b>	107	4.2	0.00	105
13.4	0.08	371	NA	1000	0.115	107	4.2	0.00	97.8

Dissolved Manganese			Dissolved Zinc				Hardness	
Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Measured Value	Acute TVS at Hardness	Chronic TVS at Sample Hardness	Hazard Quotient	Or 400, whichever is less	Measured Value
4738	2618	7.8	<b>26800</b>	564	428	47.5	400	1300
4738	2618	2.30	<b>8540</b>	564	428	15.1	400	537
4738	2618	1.69	<b>5820</b>	564	428	10.3	400	467
4738	2618	1.42	<b>4650</b>	564	428	8.2	400	433
2996	1655	0.25	<b>199</b>	161	122	1.2	101	101
3015	1666	0.24	<b>238</b>	164	124	1.4	103	103
3005	1661	0.25	<b>324</b>	163	123	2.0	102	102
3015	1666	0.27	<b>326</b>	164	124	2.0	103	103
3577	1976	0.38	<b>699</b>	262	198	2.7	172	172
4162	2299	1.60	<b>4020</b>	396	300	10.1	271	271
3477	1921	0.52	<b>1210</b>	243	184	5.0	158	158
3371	1863	0.39	<b>733</b>	223	169	3.3	144	144
3363	1858	0.34	<b>609</b>	222	168	2.7	143	143
2966	1639	0.10	85.8	157	119	0.5	98	98
2966	1639	0.10	110	157	119	0.7	98	98
3324	1836	0.63	<b>1700</b>	214	162	7.9	138	138
3477	1921	0.03	43.5	243	184	0.2	158	158
3484	1925	0.03	37.8	244	185	0.2	159	159
3492	1929	0.03	49.1	245	186	0.2	160	160

Location	Date/Time	Dissolved Cadmium	Dissolved Copper	Total Iron	Dissolved Lead
		Hazard Quotient	Hazard Quotient	Hazard Quotient	Hazard Quotient
Cement Creek 14th St Bridge	8/5/15 16:00	11	210	49.5	0.5
CC48	8/5/15 19:25	3.3	46	27.0	0.3
CC48	8/5/15 23:00	2.1	23	21.3	0.2
CC48	8/6/15 6:00	1.6	16	20.0	0.1
A68	8/5/15 16:00	0.3	0.3	0.2	0.0
A68	8/5/15 19:15	0.3	0.2	0.1	0.0
A68	8/5/15 23:30	0.3	0.3	0.1	0.0
A68	8/6/15 6:15	0.3	0.2	0.1	0.0
A72	8/5/15 13:45	0.4	0.4	66.3	0.0
A72	8/5/15 16:15	2.3	41	1250	0.3
A72	8/5/15 20:10	1.1	9.9	164	0.0
A72	8/5/15 23:50	0.7	0.6	35.7	0.0
A72	8/6/15 6:30	0.6	0.4	18.4	0.0
Bakers Bridge	8/5/15 20:05	0.1	0.2	0.4	0.0
Bakers Bridge	8/6/15 0:00	0.1	0.1	0.4	0.0
Bakers Bridge	8/6/15 9:00	1.5	10	326	0.0
32nd St Bridge	8/5/15 20:50	0.0	0.1	0.3	0.0
32nd St Bridge	8/6/15 0:40	0.0	0.1	0.3	0.0
32nd St Bridge	8/6/15 9:45	0.0	0.1	0.4	0.0



<b>Dissolved Manganese</b>	<b>Dissolved Zinc</b>
<b>Hazard Quotient</b>	<b>Hazard Quotient</b>
7.8	47
2.3	15
1.7	10
1.4	8.2
0.2	1.2
0.2	1.4
0.3	2.0
0.3	2.0
0.4	2.7
1.6	10
0.5	5.0
0.4	3.3
0.3	2.7
0.1	0.5
0.1	0.7
0.6	7.9
0.0	0.2
0.0	0.2
0.0	0.2

			Mercury	Diss. Arsenic	Total Arsenic
			7439-97-6	7440-38-2	7440-38-2
			ug/L	ug/L	ug/L
Location	Date	Sample Time	--	--	--
32nd St Bridge	8/5/2015	20:50	<0.0500	0.628 J	<2.50
32nd St Bridge	8/6/2015	0:40	<0.0500	0.603 J	<2.50
32nd St Bridge	8/6/2015	9:45	<0.0500	<0.500	<2.50
A68	8/5/2015	16:00	<0.0500	<0.500	<2.50
A68	8/5/2015	19:15	<0.0500	<0.500	<2.50
A68	8/5/2015	23:30	<0.0500	<0.500	<2.50
A68	8/6/2015	6:15	<0.0500	<0.500	<2.50
A72	8/5/2015	13:45	<0.0500	<0.500	28.9 D
A72	8/5/2015	16:15	0.418	0.797 J	1080 D
A72	8/5/2015	20:10	0.065 J	<0.500	116 D
A72	8/5/2015	23:50	<0.0500	<0.500	27.1 D
A72	8/6/2015	6:30	<0.0500	<0.500	15.7 D
Bakers Bridge	8/5/2015	20:05	<0.0500	<0.500	<2.50
Bakers Bridge	8/6/2015	0:00	<0.0500	<0.500	<2.50
Bakers Bridge	8/6/2015	9:00	0.152	<0.500	264 D
CC48	8/5/2015	23:00	0.077 J	<2.50	203 D
CC48	8/5/2015	19:25	0.078 J	<2.50	732 D
CC48	8/6/2015	6:00	0.052 J	<2.50	98.5 D
Cement Creek 14th St Bridge	8/5/2015	16:00	19.2 D	<5.00	8230 D

Cement Creek 14th St Bridge	8/5/2015	16:00
CC48	8/5/2015	19:25
CC48	8/5/2015	23:00
CC48	8/6/2015	6:00
A68	8/5/2015	16:00
A68	8/5/2015	19:15
A68	8/5/2015	23:30
A68	8/6/2015	6:15
A72	8/5/2015	13:45
A72	8/5/2015	16:15
A72	8/5/2015	20:10
A72	8/5/2015	23:50
A72	8/6/2015	6:30
Bakers Bridge	8/5/2015	20:05
Bakers Bridge	8/6/2015	0:00
Bakers Bridge	8/6/2015	9:00
32nd St Bridge	8/5/2015	20:50
32nd St Bridge	8/6/2015	0:40
32nd St Bridge	8/6/2015	9:45



















































































































































































































































































































































































































































































































































































































































































































































































































































Mercury	Diss. Arsenic	Total Arsenic
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<b>19.2 D</b>	<5.00	<b>8230 D</b>
<b>0.078 J</b>	<2.50	<b>732 D</b>
<b>0.077 J</b>	<2.50	<b>203 D</b>
<b>0.052 J</b>	<2.50	<b>98.5 D</b>
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<0.0500	<0.500	<b>28.9 D</b>
<b>0.418</b>	<b>0.797 J</b>	<b>1080 D</b>
<b>0.065 J</b>	<0.500	<b>116 D</b>
<0.0500	<0.500	<b>27.1 D</b>
<0.0500	<0.500	<b>15.7 D</b>
<0.0500	<0.500	<2.50
<0.0500	<0.500	<2.50
<b>0.152</b>	<0.500	<b>264 D</b>
<0.0500	<b>0.628 J</b>	<2.50
<0.0500	<b>0.603 J</b>	<2.50
<0.0500	<0.500	<2.50



















































































































































































































































































































































































































































































































































































































































































































































































































































